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Biological Warfare Studied At The Hopkins

work, which is continuing at a scientific adviser in Washington.

Some Continued

\$1.000,000

Defensive Aspects

By Stephen J. Lynton

Doctors at the Johns Hopkins University have done more than \$1,000,000 worth of research on biological warfare over the past eleven years, university officials ture. acknowledged yesterday.

preventing and treating diseases caused by biological warfare, according to Dr. Leighton E. Cluff, the Hopkins professor who

of the University of Florida, explained that the Hopkins project tionl, and treatment of infec-give its consent.

The existence of Hopkins studlies in biological warfare was frevealed in the January 13 issue of Science magazine. In an article on chemical and biological weapons, Elinor Langer, a staff writer for the magazine, commented:

"Between 1955 and 1963 the Johns Hopkins received over \$1,

gical warfarel significance and Cluff left the Hopkins in 1966 to He observed that none of the evaluation of certain clinical and assume his post at the University of Florida, and Dr. Ivan Benweapons. "It was all defensive," tain toxoids and vaccines." "Hopkins reports that its sence to work as a Federal

However, the research was vania has been wracked by distare research contract ran from project's research into problems putes in recent years over its 1953 to 1960. engagement in biological warfare projects. Contract Acknowledge

headed the biological warfare project.

Dr. Cluff, who is now chair-knowledge: "There was such a projects to say more than that period the medical department."

Bruce J. Partriage, adminis-different context, the unserved. He commented he was not suffi-led trative vice president at the He commented he was not suffi-led. Fort Detrick employees, he said.

Dr. Cluff, who is now chair-knowledge: "There was such a projects to say more than that year leave of absence from his position as chairman of the

plained that the Hopkins project stemmed from a military contract for "research and investigation of the pathogenesis [cause], prophylaxis [prevention], and treatment of infection."

Dr. Cluft stated that the Hopkins, pointed out that the kins had a contract with the Hopkins, pointed out that the contract for "research projects kins had a contract with the Hopkins, pointed out that the contract for "research projects kins had a contract with the Hopkins, pointed out that the Hopkins project kins had a contract with the Hopkins, pointed out that the contract for "research projects kins had a contract with the Hopkins, pointed out that the hopkins project by the university itself. The Md., from 1955 to last March 1. Secret. "The whole project was unspecifically oblige Hopkins re-classified," he declared.

Research 000,000 for work described as The two Hopkins doctors most searchers to study biological Done in 11 Years On injuries or illnesses, studied on project are no longer at the practice, "that was the whole diseases of potential BW (biolo-university, the commented. Dr. aim of it."

nett has taken a leave of ab-he said.

Examples Noted

He cited a broad investigareduced level, produced no re- H. Ridgely Warfield, director tion of intensive immunization sults published in open litera-of the Institute for Cooperative and studies of diseases includ-The University of Pennsyl-he believed the biological war- and Q fever as examples of the that may be caused by biological

"Some of that work has been Since the contract's expira-Bruce J. Partridge, adminis-different context," he observed provided medical treatment for

they now have a different scope, position as chairman of the He pointed out, however, that Dr. Cluff stated that the Hop-pathology department at the